

Clinopyroxene-Liquid Thermobarometers

Reference	Name in ThermoBar	T-dependent?	P-dependent?	H ₂ O-dependent?	
Clinopyroxene-Liquid Barometry. Function “calculate_cpx_liq_press”					
Putirka (1996)	P_Put1996_eqP1	✓		✗	
	P_Put1996_eqP2	✓		✗	
Putirka (2003)	P_Put2003	✓		✗	
Putirka (2008)	P_Put2008_eq30	✓		✓	
	P_Put2008_eq31	✓		✓	
	P_Put2008_eq32c	✓		✓	
Masotta et al. (2013) <i>recalibration of Putirka eqs. for alkali systems</i>	P_Mas2013_eqPalk1	✓		✗	
	P_Mas2013_eqPalk2	✓		✗	
	P_Mas2013_eqalk32c	✓		✓	
Masotta et al. (2013)	P_Mas2013_Palk2012	✗		✓	
Neave & Putirka (2017)	P_Neave2017	✓		✗	
Petrelli et al. (2021)	P_Petrelli2021_Cpx_Liq	✗		✓	
Jorgenson et al. (2021)	PlaceHolder				
Clinopyroxene-Liquid Thermometry. Function “calculate_cpx_liq_temp”					
Putirka (1996)	T_Put1996_eqT1		✗	✗	
	T_Put1996_eqT2		✓	✗	
Putirka (1999)	T_Put1999		✓	✗	
Putirka (2003)	T_Put2003		✓	✗	
Putirka (2008)	T_Put2008_eq33		✓	✓	
Masotta et al. (2013) <i>Recalibration of Putirka eqs. for alkali systems</i>	T_Mas2013_eqTalk1		✗	✗	
	T_Mas2013_eqTalk2		✓	✗	
	T_Mas2013_eqalk33		✓	✓	
Masotta et al. (2013)	T_Mas2013_Talk2012		✗	✓	
Brugman & Till (2019)	T_Brug2019		✗	✗	
Petrelli et al. (2021)	T_Petrelli2021_Cpx_Liq			✗	✓
Jorgenson et al. (2021)	PlaceHolder				
Other Functions					
calculate_cpx_liq_press_temp(): Iteratively solves P and T for cpx-liq pairs.					
calculate_cpx_liq_press_temp_matching(): Calculates P and T for all possible cpx-liquid pairs					
calculate_cpx_rhodes_diagram_lines(): Calculates equilibrium lines for a range of melt Mg#s.					

Clinopyroxene-only Thermobarometers

Reference	Name in ThermoBar	T-dependent?	P-dependent?	H ₂ O-dependent?
Clinopyroxene-only Barometry. Function “calculate_cpx_only_press”				
Putirka (2008)	P_Put2008_eq32a	✓		X
	P_Put2008_eq32b	✓		✓
Petrelli et al. (2021)*	P_Petrelli2021_Cpx_only	X		X
	P_Petrelli2021_Cpx_only_withH2O*	X		✓
Wang et al. (2021)	P_Wang2021_eq1	X		X
	P_Wang2021_eq3	X		X
Jorgenson et al. (2021)	Placeholder			

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